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Pipeline and Hazardous Materials
Safety Administration

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Geogathering Conference
May 8, 2007

Kimbra Davis
PHMSA Western Region
Office of Pipeline Safety



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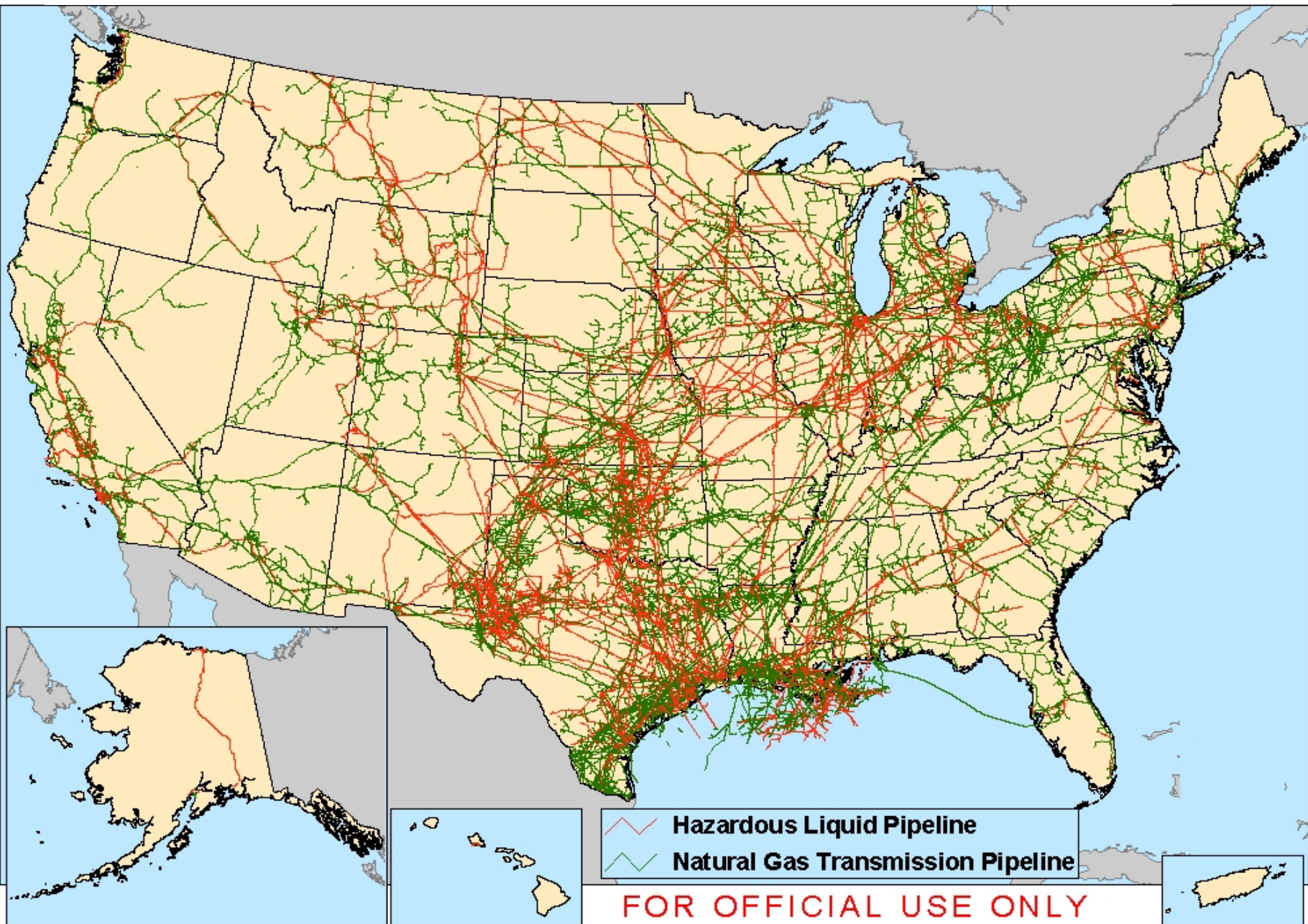
Office of Pipeline Safety

Office of Pipeline Safety Mission:

*To ensure the
safe,
reliable, and
environmentally sound
operation of the nation's
pipeline transportation system.*



Pipeline & Hazardous Materials Safety Administration's – National Pipeline Mapping System



FOR OFFICIAL USE ONLY



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The National Pipeline Mapping System (NPMS)

- A GIS dataset containing liquid and gas transmission pipelines and LNG facilities in the United States
- Created by USDOT PHMSA
- A GIS-enabled Web site is at www.npms.phmsa.dot.gov
- Contact person: Amy Nelson
 - Amy.Nelson@dot.gov
 - 202-493-0591



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NPMS Interesting Facts

- Only complete non-commercial source of transmission pipeline GIS data
- The NPMS National Repository is managed by a PHMSA contractor (Michael Baker Jr. Inc.)
- The NPMS National Repository is responsible for collecting, processing, and disseminating the NPMS data

National Pipeline Mapping System

Ask for raw data on CD

- ABOUT NPMS
- PIMMA
- MAKING A SUBMISSION
- DATA REQUESTS & DOWNLOADS**

View data without username/password

NEW ! NPMS PUBLIC MAP VIEWER

- [About the NPMS](#) **NEW!**
[Public Map Viewer](#)
- [What's New?](#)
- [Operator ID Search](#)
- [Update Your Submission Online](#)
- [NPMS Operator Standards](#)
- [NPMS Submission FTP](#)
- [NPMS Operator Submission Status](#)
- [Find Who's Operating Pipelines in Your Area](#)

PIMMA
Pipeline Integrity Management Mapping Application

Click Here to Apply for PIMMA Access

Already have a Username?
Log on here:

- PIPELINE OPERATOR
- FEDERAL GOVERNMENT
- STATE & LOCAL GOVERNMENT

Apply for a username/password





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Viewing Pipeline Maps

- **PIMMA**
 - Password required
 - Access limited to Federal government, state/local government, pipeline operators
 - Contractors may use their client's login information if an NDA is signed (client must apply for the account)
 - Contains most detailed information
 - Allow one week for processing, plus mail time



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Viewing Pipeline Maps

- **Public Viewer**
 - Newly launched
 - Open to everyone
 - View only one county per session
 - Limited information and detail



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NPMS Regulatory Requirements

Section 15 of the Pipeline Safety Improvement Act of 2002 required operators of pipeline and LNG facilities (except distribution and gathering lines) to submit the following information to the NPMS:

1. Geospatial, attribute, and meta data
2. The name and address of the person with primary operational control
3. Public contact information
4. Updates of the information to reflect changes.



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New Requirements for Rural Onshore Hazardous Liquid Gathering Lines and Low Stress Pipelines

- September 6 – Notice of Proposed Rule
- Pipeline Inspection, Protection, Enforcement, and Safety Act of 2006 (PIPES)
- Phase I – Changes to Low Stress Pipeline with a Supplemental Notice
- Phase II – more rulemaking initiatives

<http://dms.dot.gov> - Search on 15864



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September 6 - New Rules Proposed - A Risk Based Approach

- Applies to facility operators of hazardous liquid gathering and low stress pipelines in rural areas.
- Designed to protect unusually sensitive areas (USA) from hazardous liquid pipelines in rural areas.
- Addresses most significant threats: corrosion and external damage



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“Regulated Rural Gathering Line”

A rural onshore gathering line with

1. Nominal diameter of 6 5/8 up to and including 8 5/8 inches
2. Maximum operating pressures corresponding to a stress level of greater than 20% SMYS or if unknown, a pressure greater than 125 psig.
3. Located within a 1/4 mile of an Unusually Sensitive Area



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Requirements for Regulated Rural Gathering Lines

1. Identify segments
2. Design, install, construct, initially inspect
3. Comply with reporting requirements
4. Establish a maximum operating pressure
5. Install and maintain line markers



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Requirements for Regulated Rural Gathering Lines - continued

6. Establish and apply public education and damage prevention programs
7. Control corrosion (for steel lines)
8. Establish and apply and operator qualification program
9. Comply with drug and alcohol testing



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Pipeline Inspection, Protection, Enforcement, and Safety Act of 2006 a.k.a. “PIPES”

MINIMUM STANDARDS- Not later than December 31, 2007, the Secretary shall issue regulations subjecting low-stress hazardous liquid pipelines to the **same standards and regulations** as other hazardous liquid pipelines, except as provided in paragraph (3).



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Exceptions in PIPES

- (3) LIMITED EXCEPTIONS- The Secretary shall provide or continue in force exceptions to this subsection for low-stress hazardous liquid pipelines that--
 - (A) are subject to safety regulations of the United States Coast Guard; or
 - (B) serve refining, manufacturing, or truck, rail, or vessel terminal facilities if the pipeline is less than 1 mile long (measured outside the facility grounds) and does not cross an offshore area or a waterway currently used for commercial navigation,



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Changes Needed to meet PIPES requirements

- Phase 1 Rulemaking – Includes the **September 6 Notice** of Proposed Rule Making and a **Supplemental Notice** which incorporates changes required by PIPES.
- Phase 2 Rulemaking – Extends the regulation to those low stress pipelines not addressed in Phase I.



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Phase I Scope

- Addresses high stress gathering lines per the September 6 Notice.
- Addresses low stress lines 8 5/8” and greater whose failure could affect a USA per the Supplemental Rule which applies ALL of Part 195.



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Supplemental Rule Definition for “Regulated Low Stress Line”

Onshore line in a rural area with these characteristics:

1. Nominal diameter of 8 5/8 inches or more
2. Located **within a 1/2 mile** of an Unusually Sensitive Area
3. Operates at a maximum pressure corresponding to a stress level of less than 20% SMYS or, if unknown, a pressure equal to or less than 125 psig.



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Subpart B

Sept. 6 Notice	Supplemental Notice
<p data-bbox="91 676 738 1015">Subpart B – Annual, Accident, and Safety- Related Condition Reporting</p> <p data-bbox="91 1061 868 1210">Applied to gathering lines and low stress in a USA</p>	<p data-bbox="967 676 1744 915">Will propose extension of reporting to ALL low stress lines.</p>



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Submission Requirements

- Operators of low-stress hazardous liquid pipelines will be required to submit their pipeline data to the NPMS
- Data submitted will be the same as currently submitted by hazardous liquid and gas transmission operators and include:
 - Geospatial Data
 - Attribute Data
 - Metadata



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Submission Requirements

- Operators must submit their data in accordance with the NPMS Operator Submission Standards
- The Standards will be updated to reflect the collection of low-stress pipelines
- Standards are available for download at www.npms.phmsa.dot.gov
- Data must be updated every 12 months from the last submission



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Obtaining Raw Data

- Available to Federal/state/local government officials and pipeline operators
- Data delivered on CD in ESRI shapefile format
- Allow one week for processing, plus mail service
- Data cannot be shared or disseminated, except internally in your agency
- Exception: county/local governments (contact Amy for details)



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Data Attributes

Attributes include

- Operator name
- Pipeline system name
- Commodity carried
- Diameter (optional but reported for 78% of records)
- Interstate/ intrastate designation
- Data accuracy

Not all attributes available on Public
Viewer



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Phase II Scope

- Extends the regulation to those low stress pipelines not addressed in Phase I.
 - Pipelines less than 8 5/8 inches in diameter
 - Pipelines greater than 8 5/8 inches whose failure would not affect a USA.
- Phase II will require an additional Notice of Proposed Rule Making.



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Survey Planned for Rural Low Stress Pipelines

- Will help confirm Phase I data and provide more information for Phase II.
- Should be available in the next couple of months.
- Typical questions include
 - Number of miles
 - Miles per state
 - Commodity transported



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Inspection and Enforcement

Compliance with the new protections will be subject to rigorous inspection by PHMSA pipeline safety inspectors, or state inspectors.

Possible enforcement actions include:

- **Corrective Action Orders**
- **Notices of Probable Violation**
- **Notices of Amendment**
- **Warning Letters**

Our enforcement actions are online:

<http://primis.phmsa.dot.gov/comm/reports/enforce/Enforcement.html>



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